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# Libraries Complete \$5 Million Renovations Over the Summer

By Divya Srinivasan

Looking for a cool new place to study this semester? MIT recently renovated two of its largest libraries. Dewey Library boasts a \$4.6 million facelift that includes expanded group study space and more environmentally responsible features. Barker Library gained a brighter reading room and inherited the orphaned collections of the Aeronautics and Astronautics Library, which was closed in June. The collections of the other closed library, Lindgren, have been relocated to Hayden.

The Barker Library reading room "used to be dark and dingy ... there were these journal racks that had really gross gray carpeting and had lights that would flicker all the time and you wouldn't be able to see what you were looking for. You could never tell who was there or how many people would be there," said Roshni Gohil, a staff member.

While renovations on the interior of the dome have been completed, the exterior of the dome will continue to be obscured until construction is completed in mid-November.

According to Millicent R. Gaskell, Head Librarian at Dewey Library, the library underwent over eight months of renovation and six months of administrative work and planning. Renovations began last December and

were completed at the end of August to accommodate students for the new school year.

Changes to Dewey Library include the creation of new group study rooms that are equipped with wall-mounted LCD screens with laptop

connector cables, conference phones, cork floor tiles to create a quieter learning space, and large white boards to facilitate group work.

In addition to facilitating group

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JENNIFER L. WONG

**The newly-renovated Barker Engineering Library provides a bright and quiet atmosphere for working.**

# MIT Graduate Student Runs for City Council, Hopes to Represent Students

By Jessica J. Pourian

STAFF REPORTER

On November 3, Cambridge voters will decide whether an MIT student is fit to serve on city council. Leeland Cheung, a graduate student in the Sloan School of Business is running for a position on city council because he believes "[We] need a student voice representing our interest," a "liaison"

between the students and the city government.

Cheung, who moved to Cambridge in 2005 and is now a homeowner, hopes to change the city for the better. "The biggest issue is collaboration" he said. Students are "often treated as second class citizens" just because they are only here temporarily. As "somebody who's lived in both worlds" as a resident and a student, Cheung thinks he can bring the town and universities together.

Cheung said his goals included adding more late night food options, a bike sharing program, WiFi in local parks, more protection against crime, more parking, and possibly even a new cell phone tower to improve reception.

According to Cheung, attaining most of these goals center on resolving "zoning issues." For these things to happen, the city needs to "issue permits."

Boston is implementing a bike sharing program this coming year and "there's no reason why Cambridge can't work with Boston" to bring it to this side of the river, Cheung said. "I think it's great for students." With the new plan, students could rent a bike for a few hours in Kendall Square, ride it into Boston, and return it later on.

"It's not going to get done if you don't have a student in there," said Cheung. Asked whether all of his goals were feasible, he said "I'm ambitious, so yes, I think I can."

And will it be hard to juggle psets with being a politician? "I'll totally be

able to manage," Cheung said, "Most people have a job outside of city council." The council meets as a whole once a week, though there are subcommittee meetings and committee meetings

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# Proposed Minor Asks: How Does Technology Alter the Environment?

By Jingyun Fan

STAFF REPORTER

Eighty-nine faculty members from a variety of departments have banded together to propose a new sustainability minor, an "extension" of the energy minor introduced last year. The members make up FENS, the MIT Faculty Environmental Network for Sustainability, and their proposal would create an undergraduate minor and a graduate certificate program in environment and sustainability.

"It is important to distinguish the undergraduate Environment and Sustainability Minor from the Energy Minor," said Lawrence E. Susskind PhD '73, an Urban Studies and Planning professor and coordinator of FENS. "While the Energy Minor focuses on the energy crisis and explores all types of solutions — many of which will probably assume doing more with fossil fuels — the Environment and Sustainability Minor will focus, I suspect, much more on renewable energy, strategies for environmental impacts of energy use."

"There are many more aspects to sustainability other than energy," said Aaron M. Thom '11, president of Sustainability@MIT, an environmental student group working closely with FENS.

Creating the faculty of the energy and sustainability program will be a challenge since faculty members will need to come from other departments where they have other obligations. FENS must juggle existing faculty obligations with being able to provide students with adequate advising and a stable course selection to complete the program.

The specifics of the minor can

still be changed, as the proposal still needs approval from the Institute. "There is a period between now and February for people to influence the details of the program; indeed, to get it approved, we are going to need a groundswell of student support and enthusiasm," said Susskind.

Several initiatives are being taken to gauge student opinion and collect suggestions for the program. This week, surveys will be distributed to both the undergraduate and graduate student bodies, said Kathleen M. Araujo, a graduate student leader of Sustainability@MIT.

The surveys will be asking students where needs lie in terms of classes and extra-curriculars, which classes have been instrumental in shaping their understanding of sustainability, and what form of faculty or programmatic development could enhance learning outcomes. Sustainability@MIT will then bridge the gap between students and FENS. "A few of us at Sustainability@MIT have had many conversations with Larry about this," said Araujo.

FENS also has an online forum for student discussion on the program at <http://fens.scripts.mit.edu/>.

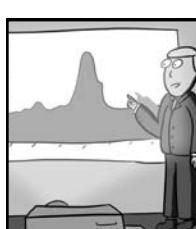
Unlike the energy minor, the environmental and sustainability program will offer a graduate certificate, the equivalent of a graduate minor, in addition to the undergraduate minor. According to Susskind, this will have the benefit of allowing more course choices for both undergraduate and graduate students.

However, while enthusiasm for the program seems high among undergraduates, as illustrated by enrollment in sustainability related

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**Fortran rocks out in the East Campus courtyard Friday evening at Fred Fest II, an annual concert sponsored by East Campus, Dormcon, MIT Residential Life, and WMBR Live. The concert featured five different bands, and attendance was between 100 and 200 people throughout the evening.**



Comics



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Waterpolo, Soccer, Football, Tennis, and more!

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## OPINION

Stu Schmill responds to admissions essay discussion

An MIT alum clears up HFT

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# WORLD & NATION

## Zimbabwe Court Ends Terrorism Case Against Rights Activist

By Barry Bearak

THE NEW YORK TIMES

Zimbabwe's Supreme Court tossed out terrorism charges against the prominent human rights activist Jestina Mukoko on Monday, ruling that she herself had been terrorized when state security agents abducted and tortured her.

"I am so relieved, I can barely express it," Mukoko said when contacted by telephone not long after leaving the courtroom in tears. "I knew the court was handing down its judgment, but I did not know which way it would go."

The ruling represented a rare triumph for human rights activists in Zimbabwe, though it remains to be seen whether the decision signifies any real shift from the repression that has marked much of President Robert Mugabe's three decades in power.

Mukoko was taken from her home by armed men at daybreak on Dec. 3, barefoot and still in her nightgown, while her teenage son looked on helplessly. She was not seen again for nearly three weeks, and later testified that she was held in secret locations, where she was tortured in an attempt to extract a false confession. She said her captors made her kneel on gravel and repeatedly beat the soles of her feet with rubber truncheons.

## A Holy Month Ends, and Violence Rises Again in Iraq

By Timothy Williams

THE NEW YORK TIMES

BAGHDAD

Eighteen people were killed, and at least 58 others were wounded in a series of bombings across Iraq on Monday as the country's level of violence picked up again after a relative lull during the holy month of Ramadan.

Monday's attacks occurred in both Shiite and Sunni areas of the country and took aim at not only the Iraqi army and the police but also at civilians.

In the western Baghdad neighborhood of Ghazaliya, a pair of bombs were detonated — the first directed at a passing Iraqi army patrol, the second at people who gathered afterward to see the wreckage, Iraqi security officials said.

The first blast, caused by a roadside bomb at about 1:45 p.m. caused no fatalities, but it wounded one civilian. The second bomb, which had been attached to a parked motorcycle, detonated minutes later, killing three people and wounding 28, an Iraqi security official said. The official spoke on the condition of anonymity because he was not authorized to speak to reporters.

## North Korea's New Constitution Reinforces Kim's Power

By Choe Sang-hun

THE NEW YORK TIMES

SEOUL, SOUTH KOREA

North Korea has officially made Kim Jong Il its "supreme leader" and his "military first" policy its guiding ideology, according to the text of the country's newly revised constitution made available on Monday.

The constitution also declared for the first time that North Korea "respects and protects" the "human rights" of its citizens, and expunged the term "communism" from its text.

Analysts saw the changes as signs that one of the last holdouts from the former communist bloc was trying to improve its international image in an effort to engage the United States and that the ailing Kim was trying to burnish his legacy.

North Korea revised its constitution in April when its rubber-stamp Parliament re-elected Kim as chairman of the National Defense Commission amid uncertainty over his health. But the outside world was kept in the dark about the details of the amendment until South Korea released on Monday what it called the text of the North Korean Constitution.

## Cooler Than Average Temperatures

By Elizabeth Maroon

STAFF METEOROLOGIST

After Sunday's overcast rain, yesterday's sunny blue skies (and its beautiful high of 75°F) were quite wonderful. However, last night we saw a large cold front pass that stretches down from Canada all along the Eastern seaboard and curves around through the gulf of Mexico. As it moved through our region, it brought clouds and rain.

The next few days have a bit of an anomalous pattern in store for us: A strong high over the Atlantic will slow down the low system to our north that brought us yesterday's cold front. This low will sit to our north for a relatively long time, and, as it rotates counterclockwise (as low pressure systems are want to do in our hemisphere), it will pull cold and relatively dry polar air down into New England to us. Temperatures will be colder than usual, like the temperatures we would see in late October.

Today, we will see fairly mild temperatures and mostly sunny conditions, but, as a secondary front moves through, expect clouds, breezier conditions, and a slight chance of rain. The cold air from the low to our north will be felt on Wednesday and Thursday as winds shift from southwesterly to northwesterly. Conditions should be fairly overcast, making it seem even cooler than normal. Dress as if it were late October: If you haven't already put away those flip-flops, it's about time you considered it. By Friday, the low over Quebec will have finally have moved to the east, and we should see the sun come out and temperatures warm a bit.

### Extended Forecast

**Today:** Mostly sunny with a high around 71°F (22°C). Winds from the southwest gusting up to 28 mph.  
**Tonight:** Cloudy and still windy, with a low around 52°F (11°C).  
**Tomorrow:** Cloudy with a 40 percent chance of rain, high around 65°F (18°C). Less chance for rain at night, low near 45°F (7°C).  
**Thursday:** Mostly cloudy, with a high near 63°F (17°C).

# William Safire, Political Columnist, Dies At 79

By Robert D. McFadden

THE NEW YORK TIMES

William Safire, a speechwriter for President Richard M. Nixon and a Pulitzer Prize-winning political columnist for The New York Times who also wrote novels, books on politics and a Malaprop's treasury of articles on language, died at a hospice in Rockville, Md., on Sunday. He was 79.

The cause was pancreatic cancer, said Martin Tolchin, a friend of the family.

There may be many sides in a genteel debate, but in the Safire world of politics and journalism it was simpler: There was his own unambiguous wit and wisdom on one hand and, on the other, the blubber of fools he called "nattering nabobs of negativism" and "hopeless, hysterical hypochondriacs of history."

He was a college dropout and proud of it, a public relations go-getter who set up the famous Nixon-Khrushchev "kitchen debate" in Moscow, and a White House wordsmith in the tumultuous era of war in Vietnam, Nixon's visit to China and the gathering storm of the Watergate scandal, which drove the president from office.

Then, from 1973 to 2005, Sa-

fire wrote his twice-weekly "Essay" for the Op-Ed Page of The Times, a forceful conservative voice in the liberal chorus. Unlike most Washington columnists who offer judgments with Olympian detachment, Safire was a pugnacious contrarian who did much of his own reporting, called people liars in print and laced his opinions with outrageous wordplay.

Critics initially dismissed him as an apologist for the disgraced Nixon coterie. But he won the 1978 Pulitzer Prize for commentary, and for 32 years tenaciously attacked and defended foreign and domestic policies, and the foibles, of seven administrations. Along the way, he incurred enmity and admiration, and made a lot of powerful people squirm.

Safire also wrote four novels, including "Full Disclosure" (Doubleday, 1977), a best-seller about succession issues after a president is blinded in an assassination attempt, and nonfiction that included "The New Language of Politics" (Random House, 1968), and "Before the Fall" (Doubleday, 1975), a memoir of his White House years.

And from 1979 until earlier this month, he wrote "On Language," a

New York Times Magazine column that explored written and oral trends, plumbed the origins and meanings of words and phrases, and drew a devoted following, including a stable of correspondents he called his Lexicographic Irregulars.

The columns, many collected in books, made him an unofficial arbiter of usage and one of the most widely read writers on language. It also tapped into the lighter side of the dour-looking Safire: a Pickwickian quibbler who gleefully pounced on gaffes, inexactitudes, neologisms, misnomers, solecisms and perversely peccant puns, like "the president's populism" and "the first lady's momulism," written during the Carter presidency.

There were columns on blogosphere blargon, tarnation-heck euphemisms, dastardly subjunctives and even Barack and Michelle Obama's fist bumps. And there were Safire "rules for writers": Remember to never split an infinitive. Take the bull by the hand and avoid mixing metaphors. Proofread carefully to see if you words out. Avoid clichés like the plague. And don't overuse exclamation marks!!

## Iran Tests Longer-Range Missiles

By Alan Cowell  
and Nazila Fathi

THE NEW YORK TIMES

PARIS

closure of a previously secret nuclear plant in Iran to threaten Tehran with a stronger response to its efforts to enrich uranium.

Iran says its nuclear program is for peaceful purposes, but many in the West say it is seeking to develop a nuclear weapon. The Obama administration is now working to assemble a package of tougher sanctions, which could include a cutoff of investments to the country's oil and gas industry as well as restrictions on many more Iranian banks, senior administration officials said Sunday.

The first direct contact in decades between the United States and Iran is scheduled to take place Thursday at international talks in Geneva. Analysts said the launching might have been intended to give Iranian negotiators the appearance of a stronger hand at the talks.

A spokesman for the Iranian For-

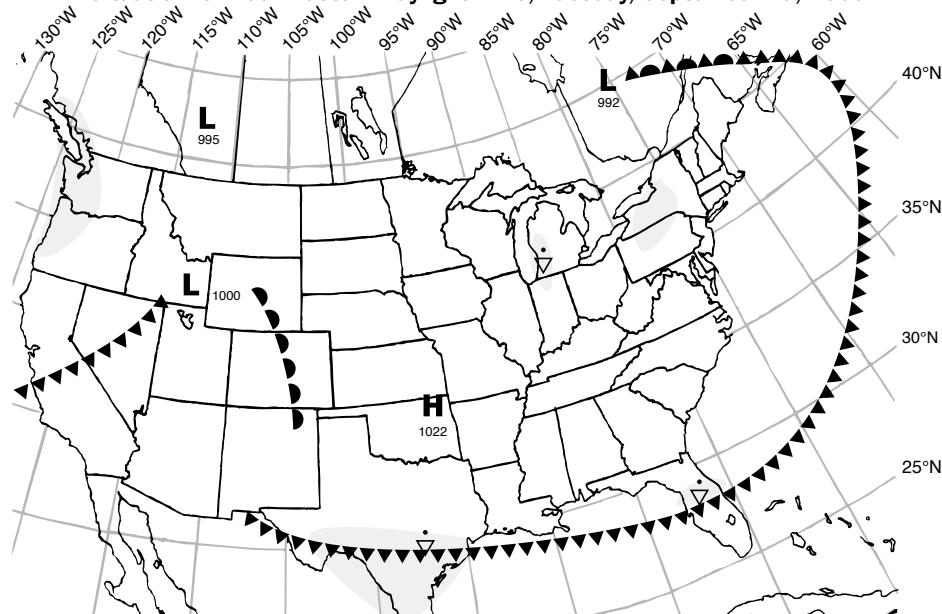
eign Ministry said at a news conference that the latest missile tests had been planned for some time and were not linked to the nuclear dispute, the state-run, English-language Press TV reported.

Concern about Iranian hostility toward Israel is matched by frequent speculation that Israel might launch a strike against Iran's nuclear facilities rather than allow Tehran to develop nuclear weapons. The missile tests on Monday were part of an effort to improve Iran's defenses, Press TV said.

Hassan Qashqavi, the Iranian Foreign Ministry spokesman, said Monday that the second enrichment facility was in Fordo, a village about 115 miles south of Tehran, and 60 miles from Natanz, the site of Iran's known enrichment plant, The Associated Press reported. That would place it, as U.S. officials have said, close to the holy city of Qum.

# WEATHER

Situation for Noon Eastern Daylight Time, Tuesday, September 29, 2009



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# Report on Russia-Georgia War to Fault Both Sides

**By Ellen Barry**

THE NEW YORK TIMES

MOSCOW

After a lengthy inquiry, investigators commissioned by the European Union are expected to conclude that Georgia ignited last year's war with Russia by attacking separatists in South Ossetia, rejecting the Georgian government's explanation that the attack was defensive, according to an official familiar with the investigators' work.

But the report is expected to balance this conclusion with an equally weighty one: If Georgia fired the first shot, Russia created and exploited the conditions that led to war, said the official, who spoke on the condition of anonymity because the report had not yet been made public.

In the years preceding the conflict, Russia encouraged separatist movements in Abkhazia and South Ossetia, territories in Georgia, training their military forces and distributing Russian passports.

The European Union inquiry is the most authoritative investigation into the causes of the August 2008 war, which battered Georgia and brought relations

between Russia and the West to a post-cold-war low. Russia and Georgia have both maintained that they acted defensively. With feelings still raw in both countries, each has heavily lobbied the international community to condemn the other party.

Investigators have closely guarded the report's contents, which will be presented to the European Union's Council of Ministers at noon Wednesday and then released to the public.

By blaming both countries, the report seems unlikely to resolve the debate over which bears more overall responsibility. Most countries have already taken a firm position on the enclaves, which only Russia, Nicaragua and Venezuela have recognized as sovereign nations. Europe and the United States have uniformly accused the Kremlin of changing Georgia's borders by force, and of violating the "six-point agreement," a French-brokered cease-fire that required Russia to withdraw its troops to prewar positions.

But the inquiry will break ground by determining who started the war. The president of Georgia, Mikheil Saakashvili, has said he had no choice but to order the shelling of Tskhinvali,

the South Ossetian capital, variously explaining that it was necessary to stop attacks on Georgian villages, to bring the region under control or to deter a Russian invasion already in progress.

Georgia has also released telephone intercepts from Ossetian border guards that purport to show that a Russian armored regiment crossed into South Ossetia a full day before Georgia's attack on Tskhinvali.

Russia's claims are also likely to come under scrutiny. The Kremlin has said it invaded Georgia to protect Russian citizens, based on Moscow's practice of distributing Russian passports to citizens of the separatist enclaves; it also claims it was compelled to stop a genocide, invoking a grave principle in international law.

Russia has also asserted the right to defend its peacekeeping troops legally stationed in South Ossetia, a claim that may prove more durable. But it is not clear how far that reasoning would extend, since Russian troops did not simply take control of South Ossetia and Abkhazia, but moved into central Georgia and conducted bombing raids there.

## Europe's Socialists Suffering Even in Bad Capitalist Times

**By Steven Erlanger**

THE NEW YORK TIMES

PARIS

A specter is haunting Europe — the specter of socialism's slow collapse.

Even in the midst of one of the greatest challenges to capitalism in 75 years, involving a breakdown of the financial system due to "irrational exuberance," greed and the weakness of regulatory systems, European socialist parties and their left-wing cousins have not found a compelling response, let alone taken advantage of the right's failures.

German voters clobbered the Social Democratic Party on Sunday, giving it only 23 percent of the vote, its worst performance since World War II.

Voters also punished left-leaning candidates in the summer's European Parliament elections and trounced French Socialists in 2007. Where the left holds power, as in Spain and Britain, it is under attack. Where it is in opposition, as in France, Italy and now Germany, it is divided and listless.

Some U.S. conservatives demon-

ize President Barack Obama's fiscal stimulus and health care overhaul as a dangerous turn toward European-style socialism — but it is Europe's right, not left, that is setting its political agenda.

Europe's center-right parties have embraced many ideas of the left: generous welfare benefits, nationalized health care, sharp restrictions on carbon emissions, the ceding of some sovereignty to the European Union. But they have won votes by promising to deliver more efficiently than the left, while working to lower taxes, improve financial regulation, and grapple with aging populations.

Europe's conservatives, says Michel Winock, a historian at the Paris Institut d'Etudes Politiques, "have adapted themselves to modernity." When Nicolas Sarkozy of France and Germany's Angela Merkel condemn the excesses of the "Anglo-Saxon model" of capitalism while praising the protective power of the state, they are using socialist ideas that have become mainstream, he said.

It is not that the left is irrelevant — it often represents the only viable

opposition to established governments, and so benefits, as in the United States, from the normal cycle of electoral politics.

In Portugal, the governing Socialists won re-election on Sunday, but lost an absolute parliamentary majority. In Spain, the socialists still get credit for opposing both Franco and the Iraq war. In Germany, the broad left, including the Greens, has a structural majority in parliament, but the Social Democrats, in post-election crisis, must contemplate allying with the hard left, Die Linke, which has roots in the old East German Communist Party.

Part of the problem is the "wall in the head" between East and West Germans. While the Christian Democrats moved smoothly eastward, the Social Democrats of the West never joined with the Communists. "The two Germanys, one socialist, one communist — two souls — never really merged," said Giovanni Sartori, a professor emeritus at Columbia University. "It explains why the SPD, which was always the major socialist party in Europe, cannot really coalesce."

## More Cows, Producing More Milk, and More Headaches

**By William Neuman**

THE NEW YORK TIMES

HANFORD, CALIF.

Three years ago, a technological breakthrough gave dairy farmers the chance to bend a basic rule of nature: no longer would their cows have to give birth to equal numbers of female and male offspring. Instead, using a high-technology method to sort the sperm of dairy bulls, they could produce mostly female calves to be raised into profitable milk producers.

Now the first cows bred with that technology, tens of thousands of them, are entering milking herds across the country — and the timing could hardly be worse.

The dairy industry is in crisis, with prices so low that farmers are selling their milk below production cost. The industry is struggling to cut output. And yet the wave of excess cows is about to start dumping milk into a market that does not need it.

"It's real simple," said Tony De Groot, an early adopter of the new breeding technology, who milks 4,200 cows on a farm here in the

heart of this state's struggling dairy region. "We've just got too many cattle on hand and too many heifers on hand, and the supply just keeps on coming and coming."

The average price farmers received for their milk in July was \$11.30 for 100 pounds, down from \$19.30 in July 2008. The retail price of milk has not dropped as much, but it is down 24 percent in a year, to an average of \$2.91 a gallon for milk with 2 percent fat.

Desperate to drive up prices by stemming the gusher of unwanted milk, a dairy industry group, the National Milk Producers Federation, has been paying farmers to send herds to slaughter. Since January the program has culled about 230,000 cows nationwide.

But the sorting technique, known as sexed semen, is expected to put 63,000 extra heifers into milk production this year, compared with the number that would be available if only conventional semen had been used, researchers estimate. That number will jump to 161,000 next year, and farmers fear it could dou-

ble again in 2011.

While that is a fraction of the 9.2 million milk cows nationwide, the extra cows this year and next could roughly equal those removed from production by the industry's culling program.

Economists expect milk prices to recover only gradually, which has farmers worried about the impact of so many extra heifers and the milk they could produce.

"Just as the industry starts to recover from these difficult times, we're going to see these heifers enter the marketplace," said Ray Souza, president of Western United Dairymen, which represents farmers who produce about 60 percent of the milk in California. "At the very worst it could certainly stop the recovery altogether and send us into another price recession."

The sorting technology relies on slight size differences between the Y chromosome, which produces male offspring, and the X chromosome, which produces female offspring and has a slightly larger amount of genetic material, or DNA.

## Markets Regain Momentum Based on Latest Mergers

**By Jack Healy**

THE NEW YORK TIMES

NEW YORK

Corporate mergers and acquisitions all but dried up during last year's financial crisis. But on Monday, Wall Street bounded higher on signs that companies once again had enough cash, credit and confidence to undertake big-ticket deals.

Announcements of two separate deals by Xerox and the pharmaceutical company Abbott Laboratories were the latest in a small flurry of corporate deal-making. Last week, the computer maker Dell made a play to expand its presence in the computer services sector by buying Perot Systems, and Kraft Foods has been in a takeover drama with the British candy maker Cadbury.

To investors, the revival of merger activity — however slight — was another sign that credit was flowing again, and the financial system was gradually returning to normal. Initial public stock offerings have also ticked up in recent weeks.

"It sends a very loud message to investors that corporate America's feeling good about the recovery, and it's time to expand," said Peter Cardillo, chief market economist at Avalon Partners.

## World Bank Head Sees Dollar's Role Diminishing

**By Edmund L. Andrews**

THE NEW YORK TIMES

WASHINGTON

The president of the World Bank said on Monday that America's days as an unchallenged economic superpower might be numbered and that dollar was likely to lose its favored position as the euro and the Chinese renminbi assume bigger roles.

"The United States would be mistaken to take for granted the dollar's place as the world's predominant reserve currency," the World Bank president, Robert B. Zoellick, said in a speech at the School for Advanced International Studies at Johns Hopkins. "Looking forward, there will increasingly be other options to the dollar."

Zoellick, who previously served as the U.S. trade representative and as deputy secretary of state under President George W. Bush, said that the euro provided a "respectable alternative" for financing international transactions and that there was "every reason to believe that the euro's acceptability could grow."

In the next 10 to 20 years, he said, the dollar will face growing competition from China's currency, the renminbi. Though Chinese leaders have minimized their currency's use in international transactions, largely so they could keep greater control over exchange rates, Zoellick said the renminbi would "evolve into a force in financial markets."

The World Bank, which is financed by governments around the globe and lends money primarily to poor countries, has no say over the economic policies of large nations or over currency matters.

But Zoellick's comments were unusual, in part because he seemed intent on being provocative. He argued that the United States and a handful of other rich nations could no longer dominate the world economy and suggested that America was losing its clout. He also took issue with a central piece of the Obama administration's proposal regarding the country's financial regulatory system.

## Michigan Must Cut a Budget Deal — Or Shut Down

**By Susan Saulny**

THE NEW YORK TIMES

State lawmakers in Michigan will convene a last-minute session on Tuesday to close a \$2.8 billion budget gap and stave off a possible government shutdown on Thursday.

Under consideration are eliminating a scholarship program and other forms of financial aid for college students, cutting back health care for the poor and decreasing state aid to townships and cities.

Michigan is suffering from a protracted economic downturn that predates the national recession. As the national economy sputtered this year, it caused more grief and challenges in Lansing, the state capital, where deep budget cuts started seven years ago when many states were enjoying surpluses.

Despite federal aid to the automobile industry and federal stimulus money to help save jobs and services, Michigan's projected shortfall grew this year, to \$2.8 billion this month from \$1.8 billion in July. The proposed budget for next year is \$8 billion.

Programs already hurting, like the Michigan Promise grant program for college tuition, may be entirely cut.

## In Pitch for Games, A Gamble for Obama

**By Peter Baker**

and Juliet Macur

THE NEW YORK TIMES

WASHINGTON

President Barack Obama announced on Monday that he will fly to Copenhagen this week to lobby the International Olympic Committee for the 2016 Summer Games.

Obama changed his mind and decided to take a gamble no other U.S. president has taken at the urging of his close friend and senior adviser, Valerie Jarrett, who has been deeply involved in promoting Chicago's bid. He said he hopes to trump the presence in Copenhagen of his counterparts from rival countries seeking the games — Brazil, Japan and Spain — and replicate the success that Tony Blair of Britain and Vladimir V. Putin of Russia had in recent years by personally lobbying for their nations' bids.

"Having the leader of the Free World there supporting the bid sends a good message," Michelle Obama, who was originally tapped to go to Copenhagen without her husband.

At the same time, crossing the ocean for a dramatic personal plea on behalf of his adopted hometown involves at least some political hazards for the president. Obama risks looking parochial at a time of enormous challenges and, perhaps even worse, risks a major international embarrassment if the committee rebuffs him and rejects Chicago in favor of Rio de Janeiro, Tokyo or Madrid.

# OPINION

## Letters To The Editor



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### More Short Essays Say More About Applicants

I appreciate the interest and the concern expressed recently regarding the Admissions Office's decision to change our freshman application essay requirements by replacing one 500 word essay with three 200–250 word short answer questions. I thought it might be helpful to offer our thinking in making this change.

Writing is important, and the ability to com-

municate is one we value and seek to develop in all of our students. But the point of the freshman application is to learn as much as possible about our applicants, and this change serves that purpose. Rather than getting an answer to one question, we'd prefer to get answers to three. What students fear, perhaps, is that they cannot communicate in 250 words what they might in 500. Having read many thousands of short and long essays, I'm certain they can. If applicants feel they have not told us their full story, they are welcome to submit whatever else they want.

The essay has become the icon of the college

admissions application. And with that comes all the baggage associated with a larger-than-life entity. Changing the format may change this dynamic, and I believe it has the potential to change the high-stakes nature of the essay that can lead an applicant to over-think or overstyle, and ultimately lose their voice.

While I respect traditions, I also like change and experimentation. We're the MIT Office of Admissions, after all. Like good scientists, we will remain open-minded and learn from our experience this application cycle.

Stu Schmill '86  
Dean of Admissions

## MIT Alum Clears the Air about High Frequency Trading

David Iba

While the national media has focused much attention on the field of high-frequency trading (HFT), there continues to be a great amount of confusion surrounding the practice. Indeed *The Tech* recently ran a *New York Times* article erroneously headlined "SEC Seeks To Ban High-Frequency Trading," which was quickly corrected to "SEC Seeks To Ban Flash Orders." As a recent MIT graduate working for Jump Trading, a major player in the HFT world, I wish to share my first-hand exposure to the industry and clear the air surrounding some of the claims the media has brought up. In this article I discuss what high frequency trading is, the role of flash orders, and the false perception that HFT firms have an unfair advantage over the rest of the market.

### What is HFT?

High-frequency trading can occur in different forms, but at its core, HFT is characterized by professional trading firms who have invested heavily in technology and algorithm creation. Since the advent of HFT, spreads have become smaller, and markets more liquid, providing a benefit to all market participants. Jump Trading and other HFT firms are exposed to the same risks of market fluctuation as any other player.

HFT strategies can derive profit in a number of ways. Some firms employ "market-making"

strategies in which they post a price that they are willing to buy a given product, and a higher price that they are willing to sell the product. If people trade against both their buy and sell orders, they will profit from what is called the "bid-ask spread." A second type of HFT strategy involves searching for market inefficiencies, and trading in ways that correct them, earning profit for the firm while simultaneously improving efficient price-discovery for all market

participants. Regardless of the strategy, there is always the risk that the market will not go in the direction the algorithms predict.

### Flash Orders

Flash orders have been made out by the media to be a huge source of profit for the HFT industry, when in reality they are a small and often non-existent component of the business conducted by HFT firms. Most simply, flash orders are offered by exchanges to prevent routing order flow to rival exchanges. Orders of this type

would be "flashed" to members of the particular exchange for less than a second before being sent out to other exchanges. I know from personal experience that Jump Trading has never used flash orders in any capacity, nor does the recent SEC ban affect our firm. In fact, we support the ban.

### Do HFT firms have an unfair advantage?

The media often likes to make it sound like top of the line computers and co-locations are private playgrounds exclusively for the high frequency community. These two things are available to anyone. Can you name one other business where participants are not allowed to use the best technology available? Using the best technology available is simply smart business, and everyone trying to do their business intelligently is doing the exact same thing. Having good computers and low latency is only one small part in the high frequency puzzle. Trading is a very difficult business, and having a good computer doesn't mean that you're automatically going to be successful.

HFT is just the next evolution of professional trading, using technology to do what traders have been doing for hundreds of years. If anything, adding liquidity to the markets and tightening price spreads makes the markets more efficient, which benefits everyone including the average investor.

David Iba is a member of the Class of 2009 and an employee of Jump Trading.

### PRESIDENT OBAMA TAKES A BREAK FROM HEALTH CARE REFORM...

FIGURED I'D TRY SOMETHING A BIT LESS FRUSTRATING FOR A CHANGE.

### Opinion Policy

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# CAMPUS LIFE

## Brouhaha Rhythm

### When Vampires Suck

By Michael Lin

CAMPUS LIFE EDITOR

The recent Stephenie Meyer phenomenon of *Twilight* has raised some very divisive questions among fantasy fans. All debating over artistic merit aside, up for contention is the matter of exactly how many liberties an author can take with established monster lore. The concept of the vampire has been around for centuries, and the *Twilight* series seems to incorporate very little of it. Fine, so Edward Cullen drinks blood, is sort of ancient, and has a mild allergy to sunlight, but then again, so does Ozzy Osbourne. Few would mistake Ozzy for a vampire, and much fewer would mistake him for the lead in a romance novel.

Traditional vampires, in various incarnations, have taken issue with garlic, wooden stakes, cruciforms, silver, running water, and anything with the word "holy" in front of it, which I guess makes Robin the Boy Wonder the ultimate vampire slayer. Sunlight is often portrayed as their greatest weakness and teenage girls as their mild annoyance, rather than vice versa. On top of that, they typically sleep in coffins and have special attachments to their home soil, none of which seem to factor into the Cullens' interior decorating so much as the IKEA catalog. I suppose if none of your furniture is actual wood, it nullifies any chance of accidental impalement by stake, not that it would matter to a *Twilight* vampire. Supposedly, vampires also can't enter a person's home without being invited in, which Edward Cullen violates in a manner both impossible for canon vampires and extremely illegal for everybody else.

Come to think of it, as complex as vampire folklore is, it's hardly surprising that authors and filmmakers feel compelled to fiddle with it. The *Blade* franchise made the occasional tweaks to the laundry list of vampiric weaknesses, and Count von Count of Sesame Street threw almost everything out altogether. Even non-European monsters can become more than a little convoluted in their portrayal. Chinese culture has its own monsters that blend aspects

of vampire and zombie. They move by hopping, can't stand the touch of sticky rice, detect living animals by their breathing, and freeze when stuck with a holy Post-It note on their forehead. I am not making that up.

In comparison, zombies and werewolves seem pretty straightforward. Zombies eat brains, can be killed by having their own brains destroyed, aren't particularly bright, and generally shamble slowly (depending on the media). Werewolves are really, really dangerous a few nights out of the month, are sensitive to silver, and supposedly are involved in a Hatfield vs. McCoy-esque feud with vampires virtually every time they appear on film, for no real compelling reason. Next to these seemingly simple monsters, why are vampires and their attributes so intricate? Maybe they're more psychologically interesting? The sexual symbolism of vampirism is reasonably well-documented, and if you don't believe me now, go to an anime/fantasy convention after 7 p.m. and then get back to me. Personally, I wouldn't be surprised if it turned out that Bram Stoker's *Dracula* was actually an effort to legitimize the author's overzealous hickeys as a romantic technique.

The counter-argument to all of this, of course, is that Stephenie Meyer has just as much right to alter vampire canon as anyone else. But how much right do we have? Why is vampire



ALISON O. MALOUF

lore so elaborate in the first place? Did Western culture very slowly add to and modify the vampire legend over many generations? Or is the current vampire merely a product of a series of huge Meyer-esque revampings and iterations? And why do those questions sound familiar?

Food for thought. Now, if you'll excuse me, I have some weightlifting to do. Halloween is coming up, and the rising army of darkness isn't going to chainsaw itself, which means I have to be able to lift a chainsaw by the time October 31 rolls around. Work, work, work...



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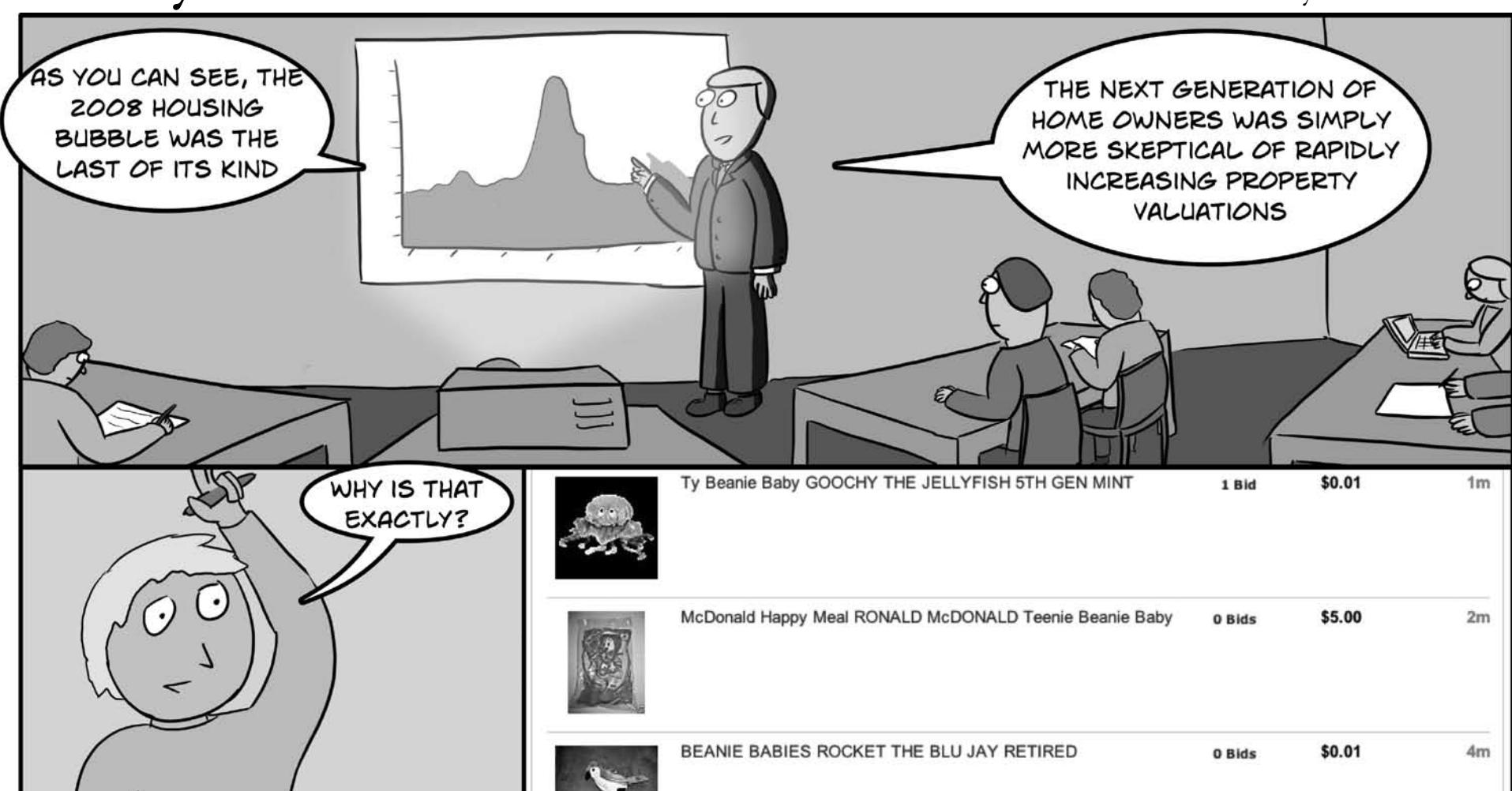
Page  
6

PAGES

September  
29, 2009

## Steal My Comic

by Michael Ciuffo



## The Daily Blunderbuss

by Ben Peters



## Sudoku

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.  
Solution on page 9.

		9		3			7	6
		8					2	
	1				9	8		
1	8		9		7			
7	4					6	9	
		4	6		1	8		
	2	4				6		
9				1				
6	1		9		5			



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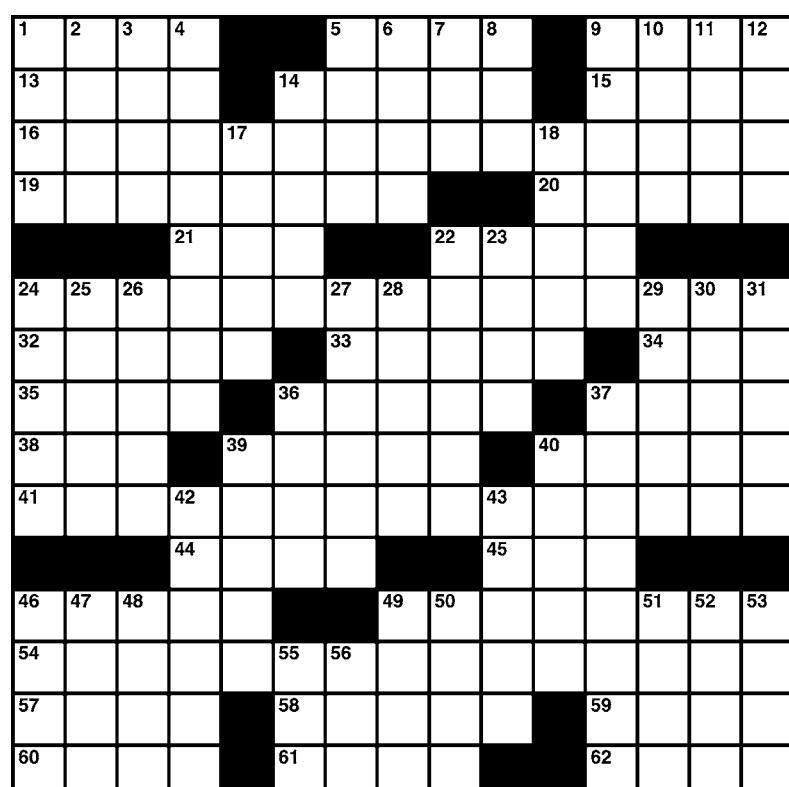
**Crossword Puzzle**

Solution, page 9

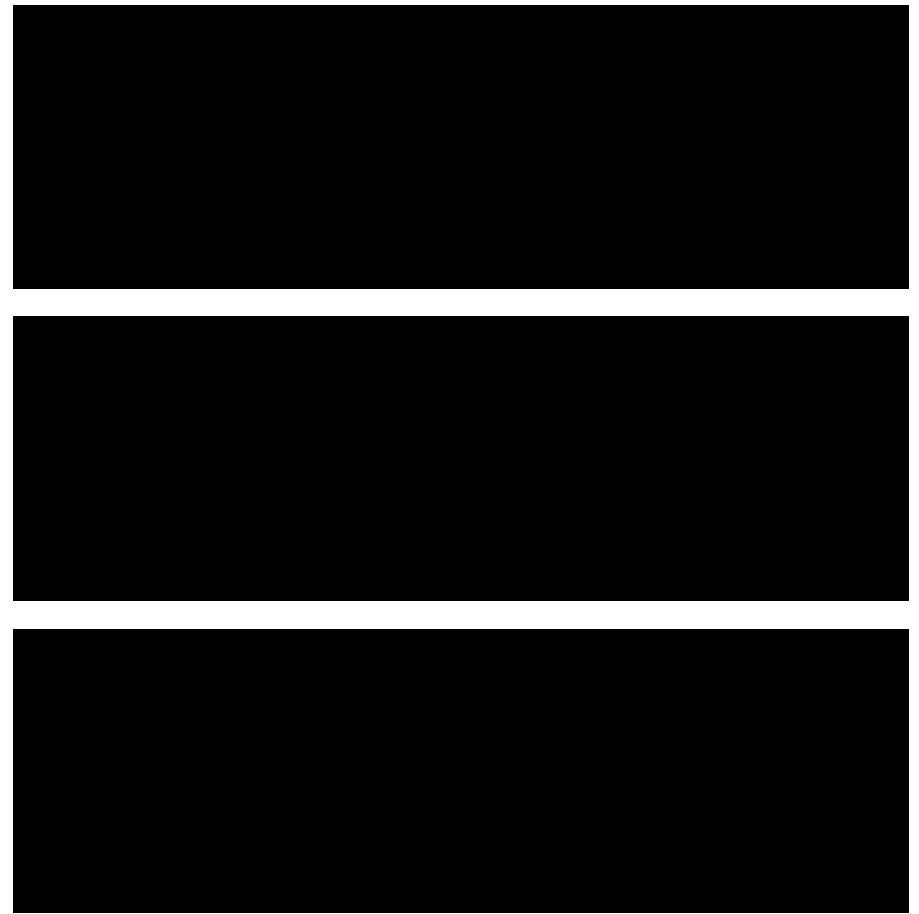
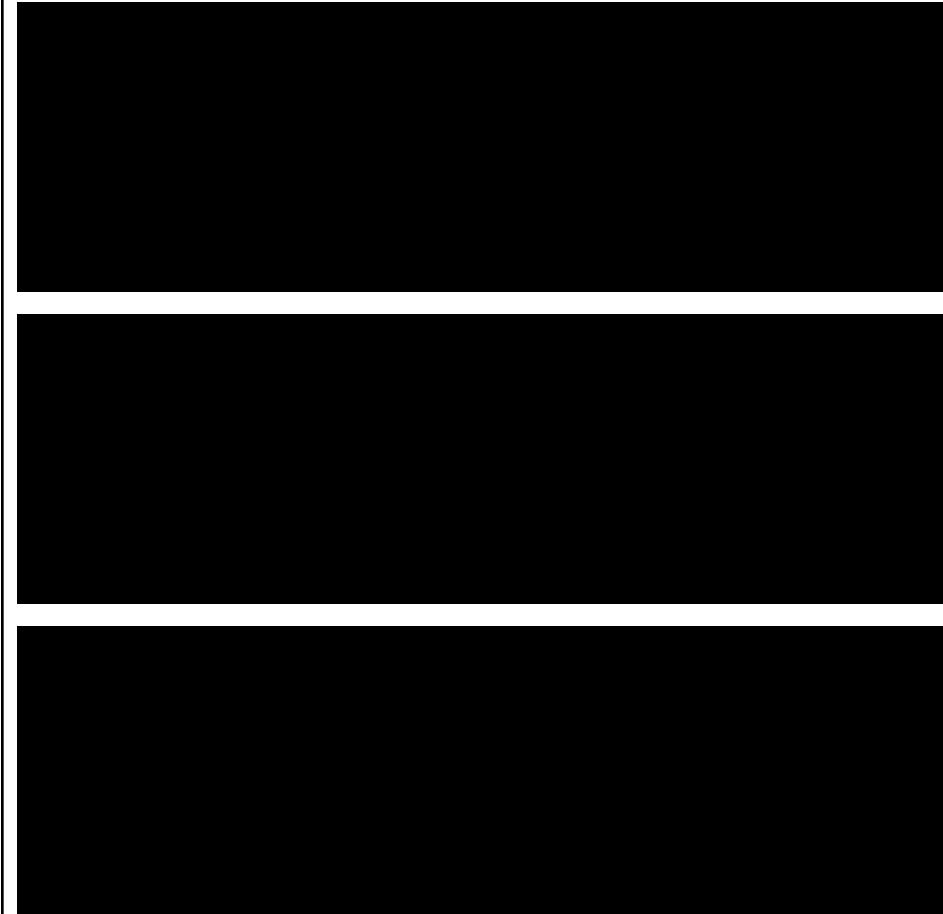
**ACROSS**

- Leaders in the dugout: Abbr.
- Univ. hot shot
- Saran, for one
- Layered cookie
- Dainty embroidered mat
- McKellen and Fleming
- Breakfast pair
- Apt to shy, as a horse
- Like a dark room
- HBO competitor
- Japanese sleuth Mr. \_\_
- Lunch pair
- Don, as apparel
- Keep one's \_\_ the ground
- Miracle-\_\_: garden product
- Bickering
- When Juliet drinks the potion
- Former Fed chairman Greenspan

- Incite to attack, with "on"
- Rocket engineer Wernher von \_\_
- Pilot light site
- Dinner pair
- Lotion ingredient
- "Gross!"
- Fancy burger beef
- Just in case
- Evening ball game snack pair
- In \_\_ of: replacing
- Abated
- Feedbag fill
- "Benevolent" fraternal order
- Orchestral reed
- Estimate phrase
- DOWN**
- Comfy soft shoes
- Understand, in slang
- Mortgage payment-lowering strategy, briefly
- Sentimental place in the heart
- Fluffy stoles
- Ho Chi \_\_
- Ancient
- Dancer Charisse
- Separate grain from chaff
- Julia, who played Gomez Addams
- Opposed to
- Hissed "Hey, you!"
- Football's "Prime Time" Sanders
- Wharton's " \_\_ Frome"
- Perform better than
- Former quarterback Dan
- Being aired, as a sitcom
- Muscle cramp, e.g.
- Noticeable navel
- City near Syracuse
- Ten-year period
- Stopped
- slouching
- Domed Arctic home
- Want badly, as chocolate
- Sharpens
- River of Florence
- Where to see wild animals in cages
- Modeler's wood
- "America's Funniest Home Videos" host Bob
- Zodiac bull
- Adjusted the pitch of, as a piano
- Skilled
- Armstrong in space
- Nerd
- \_\_ facto
- Gratis
- Start of many a letter
- Diner orders, for short
- Old U.S. gas
- Prefix with natal
- Brylcreem bit

**Doonesbury**

BY GARRY TRUDEAU

**Dilbert®** by Scott Adams

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# Before joining *The Tech*...



# ...After joining *The Tech*



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# Dewey Renovations Run Up a \$4.6M Bill Over Three Years

**Libraries**, from Page 1

work, renovations at Dewey Library foster a sense of environmental responsibility. Water-conserving fixtures that are solar powered have been placed in bathrooms, energy-efficient lighting has been installed to turn on when there is someone in the room, and bathroom counters are made of recycled glass and concrete.

Due to more compact shelving, Dewey's collection capacity has increased said Gaskell. The renovations also corrected humidity problems in the basement.

"I like the fact that it has so much more group study space than it used to. Before it was hard to find a place to actually collaborate on projects. Now that I know how to actually use the online reservation site, it is actually handy in that you don't have to fight with people for the spaces. I also like the look of it now. It's more

## Graduate Students Less Interested Than Undergrads in New Minor

**Sustainability**, from Page 1

courses and membership in Sustainability@MIT, the same cannot be said for graduate students.

"Graduates are very narrow," explained Susskind. "Something that requires looking out and across is very hard." The November 13 FENS meeting will primarily be a discussion between the faculty and graduate students to get a better sense of what may be interesting to them.

According to Susskind, the interdepartmental FENS will allow for more cross-campus coordination. Students will have access to tools and techniques in different departments, which, especially at the graduate level, was not previously accessible. In addition, FENS will facilitate increased contact between students and faculty.

Susskind also argues that the program will provide a marketable degree in the job market, where sustainability is becoming an increasing concern.

The minor "won't only be about 'broadening their worldview,'" said Thom in an e-mail. "It will be about teaching [students] to encompass multiple different perspectives and different practicable methods of approaching problems or meeting the needs of society in ways that improve environmental quality and

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modernized; before, it had a depressing 1970s feel that many old buildings have at MIT. It's been freshened up a bit," said Peter H. Rigano '10.

Barker's renovations were funded by an endowment specific to the library and was a "small budget project that went a long way," said Heather Denny, MIT Libraries Communication Officer. The current estimate for the cost of those renovations is \$272,000, according to Keith Glavash, MIT Libraries Associate Director for Administration.

The renovations for Dewey Library, on the other hand, were funded by the Committee for Review of Space and Planning. The Dewey renovations carry a \$4.6 million price tag that is spread evenly across the previous, current, and next fiscal years, said Glavash. The discussions for renovations had long been in the works and the renovation project had been scheduled before any substan-

tial budget cuts had been made.

To reduce their budget by \$1.4 million, the MIT Libraries closed the Lindgren Library and the Aeronautics and Astronautics Library over the summer. Denny said the decision to close these libraries stemmed from the intent to "keep the resources that students rely on us for while making cuts that would be most reasonable." Much of the Aero-Astro Library's collections were moved to the Barker Engineering Library on July 2, 2009; relocated materials included journals, books, theses, CDs, and DVDs. Lindgren's collection of earth, atmospheric and planetary sciences' books, journals, and CDs were moved to Hayden library as of August 4th.

The previously occupied spaces of the Aero/Astro and Lindgren libraries will be allocated to different purposes subject to discussions between the sponsoring departments and the MIT Libraries.

standards of living."

According to the FENS website, the current proposal for the undergraduate minor allows students to choose three out of four interdisciplinary core subjects and a sequence of three subjects in one out of six to ten sub-specializations; the third requirement is a thesis or capstone project approved by the environment and sustainability advisory committee. The graduate certificate has similar course requirements with the additional requirement of a

thesis or dissertation approved by an interdisciplinary faculty committee.

"In my forty years at MIT," said Susskind, "this is the first time I have seen the faculty mobilized, in a group. We have to figure out how to simultaneously support our different department goals but also the interests of our students that may not follow department boundaries. I think we are just starting off on this; next there will be transportation, water... I think you will see other minors in the future."

Solution to Sudoku								
from page 6								
8	5	9	1	3	2	4	7	6
4	6	3	8	7	9	1	5	2
2	7	1	6	4	5	9	8	3
1	8	6	9	2	7	3	4	5
7	4	5	3	1	8	2	6	9
3	9	2	4	5	6	7	1	8
5	2	4	7	8	3	6	9	1
9	3	7	5	6	1	8	2	4
6	1	8	2	9	4	5	3	7

Solution to Crossword								
from page 7								
M	G	R	S	B	M	O	C	W
O	R	E	O	D	O	I	L	A
C	O	F	F	E	A	N	D	N
S	K	I	T	T	I	S	H	U
S	H	O	U	N	L	I	L	I
S	O	U	P	A	N	D	S	A
P	U	T	O	E	A	R	T	O
A	T	I	T	A	C	T	I	V
S	I	C	B	R	A	U	N	A
M	E	A	T	A	N	D	P	O
A	L	O	E	U	G	H	T	O
A	N	G	U	I	F	N	E	D
B	E	E	R	A	P	R	E	B
L	I	E	U	E	A	S	E	D
E	L	K	S	O	B	O	R	S

## Ask SIPB

Call SIPB with  
questions at x3-7788!

Drop by our office  
in W20-557!

This week's column includes the annual cluster combo change, how to print to private printers, and some SIPB services — come to our cluedumps lectures and learn about various computing topics, and listen to free music on-demand through MIT cable.

### Is the combination to the Athena clusters going to change?

Yes; the combo to the Athena clusters changes every October. This year's combo change is scheduled for October 1. To find out the new combo, you can login to any Athena machine (cluster, quickstation, or dialup) and run:

```
athena% tellme combo
```

Other things tellme supports are tellme root, for the cluster root password, and tellme why.

### My dorm's cluster upgraded, and now I can't print! What should I do?

Debathena has transitioned to using CUPS (the Common Unix Printing System) for printing, which offers a standard graphical interface to select a printer. Unfortunately, this resulted in the loss of the ability to use printers that require Kerberos authentication, which are mostly private dorm printers (printers in clusters on campus do not require authentication), so the graphical interface doesn't show these printers as an option. As a workaround, you can use the "Print to LPR" option from the printers list, and then specify which printer to use on the command line below, e.g. lpr -Pprintername. Other standard options such as -h to disable the header page and -zduplex to print double-sided will also work from that command-line.

### How can SIPB help me learn more about computers?

Each fall, SIPB runs a series of "Cluedump" lectures, covering a variety of computing topics. The series kicks off tonight, with Understanding Git by SIPB member Nelson Elhage at 8:30 in 4-231. Future lectures are planned about statistics and statistical methods and SIPB's XVM service (<http://xvm.mit.edu/>), with more topics in the works.

### Abstract:

Git is a free software distributed version control system originally written by Linus Torvalds for Linux kernel development. It is increasingly commonly used, and learning to use it can be made much easier with a little help from those who understand how to use it. This talk will provide a brief tutorial on how to use Git and a technical overview of how it works under the covers.

To find out about future Cluedumps, add yourself to the cluedump-announce@mit.edu mailing list (athena% blanche cluedump-announce -a \$USER), or visit <http://cluedumps.mit.edu>.

### How can I listen to music on demand?

SIPB's LAMP service (the Library Access to Music Project) allows you to listen to a large collection of CDs via MIT cable TV. All you need to do is visit <https://lamp.mit.edu/>, search for the music you want to listen to, and tune to the appropriate channel. Unlike P2P music sharing, LAMP's design (which uses MIT's analog music license) is guaranteed not to get you into legal trouble.

To ask us a question, send e-mail to [sipb@mit.edu](mailto:sipb@mit.edu). We'll try to answer you quickly, and we can address your question in our next column. You can also stop by our office in W20-557 or call us at x3-7788 if you need help. Copies of each column and pointers to additional information are posted on our website: <http://www.mit.edu/~asksipb/>

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# Cheung Hopes to Create Fund For Future Student Candidates

**Cheung**, from Page 1

throughout the week. Overall, Cheung said that being a city council member would probably take less time than leading a club at MIT.

Cheung will encourage feedback from students throughout his term. Students will be able to contact him via Twitter and Facebook, technologies "for our generation" Cheung said. He also hopes to hold a coffee hour every week where students can drop by and chat with him. "Or they can pass me notes in class," he added.

Cheung is not the first MIT student to run for city council. Six years ago, Matthew S. DeBergalis '00 ran for office and lost by a narrow margin.

There are 21 candidates for the nine-seat city council this season, which holds elections for council members every two years. There is an extra slot this year since Marjorie Decker, a long time public servant, failed to file her paperwork for reelection. The fact that there's an extra council position

this year "creates a unique opportunity for students to claim their voice in the city council," Cheung said.

MIT and Harvard students, "have the numbers" to ensure that they always have a representative on city council, he said. "The magic number [of votes] in 2007 was 1364," Cheung said. He estimates this year's number will be around 1500. If the whole university "votes as a block," they can always ensure that their voices will be heard, said Cheung.

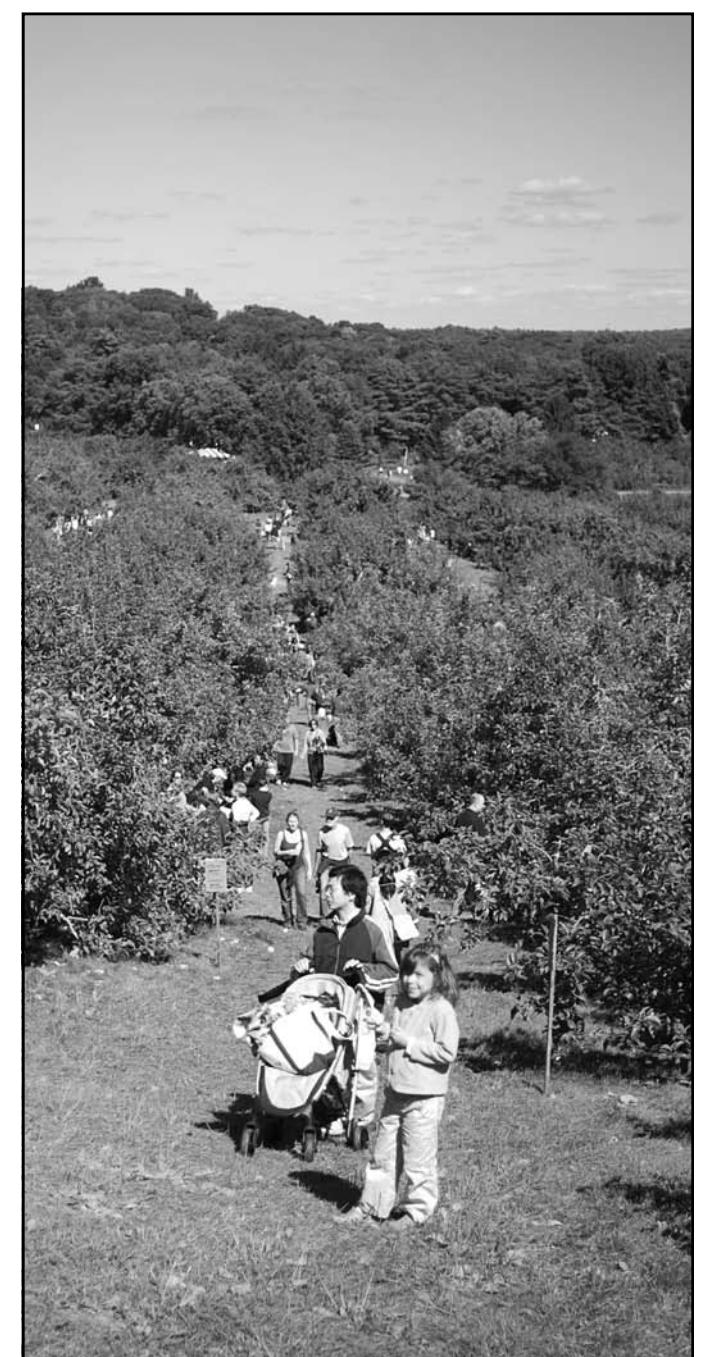
Cheung wants the city council to always have a student voice. To that end, Cheung hopes to set up a campaign fund for future student candidates. He envisions that before the city elections begin, MIT would "come together as a community" and hold a "quasi-primary" to choose a student who would represent the entire school. Once the person is selected, they would be given money from the campaign fund to help them get elected. If the MIT student body all votes for that candidate, they would be assured a seat.

Originally working at a startup that sought to make space travel possible for the wealthy, Cheung said he turned his attention to politics after hearing about the death of his neighbor's son, who died when another car sped through a red-light.

"There had been a bill to install red light cameras that had been voted down by a narrow margin," said Cheung. By being involved in the community instead of "shooting for the moon," Cheung said he "could have more of a direct impact on peoples' lives."

Cheung's campaign will be running registration drives on the MIT campus, along with other local universities, in the coming weeks.

Students must register by October 12 in order to be eligible to vote. Anyone over 18 with an address in Cambridge can vote, even if they are from out of state. Students can also visit Cheung's website, [www.lelandcheung.com](http://www.lelandcheung.com), or [www.rockthevote.com](http://www.rockthevote.com) to register. Voters can only be registered in one state at a time.



JASMINE R. FLORENTINE  
Residents of Random Hall enjoy apple picking at Honey Pot Hill Orchards in Stow, MA on Saturday.

You deserve a factual look at . . .

## Mr. Netanyahu's Offer (II)

### Are the objections of the Palestinians justified?

In our previous *hasbarah message* (#117, "Mr. Netanyahu's Offer [I]"), we told of the Netanyahu's government's willingness to allow a Palestinian state to arise alongside Israel in Judea/Samaria (the "West Bank") and in Gaza. Not surprisingly, he attached certain conditions to this offer, all of which the Palestinians totally rejected. The objections that we discussed previously referred to the "settlements," the demilitarization of the new state, and the "return of the refugees."

#### What are the facts?

In addition to those conditions mentioned above, Mr. Netanyahu's offer of a state for the Palestinians in the "West Bank" and in Gaza included two further requirements: One, that Jerusalem remain the undivided capital of Israel and two, that the Arabs recognize Israel to be the Jewish state.

**An Undivided Jerusalem.** Before the end of the 1967 Six-Day War, during which the Israel defense forces reconquered Jerusalem from the Jordanians, claims to Jerusalem being a Muslim city were rarely if ever asserted. Jerusalem had always been a city in which many religions and nationalities lived side-by-side. It was only after the old city was back in Jewish hands that the Muslim Arabs declared their desire to wage "jihad" (holy war) to bring the city into Arab possession.

The notion to call Jerusalem an Islamic holy city has only come about in modern times, especially after the Arabs lost the city to Israel in the Six-Day War. It has now gained currency by dint of constant repetition. Basis of the claim is that Jerusalem does indeed contain an Islamic holy site, the Temple Mount, sacred to both Muslims and Jews. But Jerusalem has for centuries been the capital of the Jewish people and has been the capital of Israel since its founding. It is mentioned hundreds of times in the Bible. There is not a single mention of it in the Koran.

**Israel is the State of the Jews.** Mr. Netanyahu insists that Israel be recognized as the Jewish state. But such recognition is obviously only a formality. Israel was established as the Jewish state by the Balfour Declaration, by the League of Nations, by the United Nations, by the consensus of the world, and by the facts on the ground. The reason that the Muslims do not wish to recognize Israel as a Jewish state is that it would supposedly prejudice the rights of the Muslims and perhaps members of other religions who live in Israel. But that is nonsense. Regardless of what it is called, everybody understands that Israel is

indeed the State of the Jews, and so do the over 1 million (approximately 20% of Israel's population) Muslims that live in Israel as full citizens, with all the rights and privileges of their Jewish fellow citizens. Nobody seems to object that, for instance, Iran designates itself as an "Islamic Republic." For the Muslim world to recognize Israel as the State of the Jews would simply be recognizing reality.

It has to be clear to every student of modern history that the Palestinians, if that were their real goal, could have had their own state since at least 1937, following the Peel Report. There have been many opportunities since. The most important of those was the 1948 decision of the United Nations to partition the country west of the Jordan River into a Muslim and a Jewish state. The Jews eagerly accepted the proposal, which the Arabs utterly rejected and instead invaded the nascent state of Israel with the armies of five of their countries. There have been many other opportunities since, all of which the Muslims have rejected. One must come to the unhappy conclusion that to create a state is not the ultimate goal of the Palestinians. The ultimate goal always has been and continues to be the destruction of the state of Israel.

Mr. Netanyahu's offer of allowing a Palestinian state to be created and to exist along Israel is a most generous offer. No parallel can be found in the annals of world history. It is abundantly clear that the "conditions" accompanying Mr. Netanyahu's offer are more than reasonable. Surely, after decades of open hostilities and the recent bitter example of Gaza, it should go without saying that the newly formed state should be totally and reliably demilitarized. It should be clear that the "settlements" – about 300,000 Jews in a sea of over 3 million Arabs – cannot be an obstacle to peace, since the over 1 million Arabs living in Israel are not considered a problem. It should be clear that the "refugees," which have swelled from the original 650,000 to allegedly more than 5 million, should be settled in the newly to be formed state of Palestine.

Jerusalem has been the center of Jewish life and Jewish yearning for over 3,000 years. There is no reason why it should not remain the undivided capital of Israel. And, of course, Israel is a Jewish state. Everybody understands that, whether the Muslims do or do not wish to accept it. Here is another chance for the Palestinians to have their own country and to live in peace and in prosperity alongside Israel. But chances are overwhelming that, once again, they will reject the outstretched hand that is being offered.

This message has been published and paid for by

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## SCOREBOARD

### Men's Cross Country

<b>Saturday, Sept. 26, 2009</b>	
Cod Fish Bowl	
MIT	4th of 18

### Women's Cross Country

<b>Saturday, Sept. 26, 2009</b>	
Cod Fish Bowl	
MIT	3rd of 23

### Field Hockey

<b>Saturday, Sept. 26, 2009</b>	
MIT (7-2)	1
Worcester Polytechnic Institute	2

### Football

<b>Saturday, Sept. 26, 2009</b>	
MIT (0-3)	19
Nichols College	31

### Men's Soccer

<b>Saturday, Sept. 26, 2009</b>	
Clark University	1
MIT (6-3)	2

### Women's Soccer

<b>Saturday, Sept. 26, 2009</b>	
Worcester Polytechnic Institute	0
MIT (5-2)	4

### Women's Tennis

<b>Saturday, Sept. 26, 2009</b>	
Mount Holyoke College	5
MIT (1-1)	4

### Women's Volleyball

<b>Friday, Sept. 25, 2009</b>	
Colby-Sawyer College	1
MIT (10-2)	3

<b>Saturday, Sept. 26, 2009</b>	
Bowdoin College	2
MIT (11-3)	3

<b>Saturday, Sept. 26, 2009</b>	
Springfield College	3
MIT (11-4)	0

### Men's Water Polo

<b>Saturday, Sept. 26, 2009</b>	
Queens College	13
MIT (2-10)	14

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  - Singapore Management University
  - Nanyang Polytechnic
  - Ngee Ann Polytechnic
  - Republic Polytechnic
  - Singapore Polytechnic
  - Temasek Polytechnic
  - in some instances other Singapore Institutes and recent graduates can be considered.
- You must identify a faculty member at your institute to act as a Faculty Mentor.
- You can work in a student team or as an individual. If working as a team, a team leader must be identified. Teams from multiple universities can be formed.

### Important Dates

14 September 2009	Grant Submission
30 October 2009	Grant Closes, 5 pm
30 January 2010	Award Grant

### Submission Process

The proposal must be submitted electronically to [explorergrants@smart.mit.edu](mailto:explorergrants@smart.mit.edu) by 30th October 2009, 5 pm, Singapore time.

Grant application form is available @ <http://web.mit.edu/smart/explorer>

For inquiries about the grant program, contact Howard Califano at [howard.califano@smart.mit.edu](mailto:howard.califano@smart.mit.edu) or visit our website at <http://web.mit.edu/smart/innovationcentre> for more information.

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# SPORTS

## MIT Football Falls to Nichols College, Still Looking for First Win

**By Russell Spivak**

TEAM MEMBER

The MIT Engineers lost Saturday to the Nichols College Bisons at Nichols' homecoming game 31-19.

The Engineers came out strong, forcing a three-and-out right and responding by driving the ball down the field. The momentum was

stifled, however, when MIT kicker Peter W. Gilliland '12's kick hit off the left upright. The Bisons, lead by quarterback Sean Smith-Vaughn, were able to drive downfield and take the lead on a 25-yard field goal.

The Cardinal and Grey responded quickly when backup quarterback Sean P. Kelly '12, after starter Kyle T. Johnson '11 left the game with a concussion, was able to lead the Engineers down the field. Captain DeRon M. Brown '10 was able to punch in for the score and the Engineers took the lead 6-3 when the Bisons blocked the point-after attempt.

This would be the only time the Engineers had the lead the entire day. The Bisons responded with vigor, scoring three unanswered touchdowns in the second quarter; two were connections from Smith-Vaughn to senior receiver Mike Seiger on back-to-back possessions sandwiched in between an interception by the Bisons on one of Kelly's passes. Bison tailback Robert Morris was able to push a third touchdown across the plane from the four-yard line to take the lead 24-6.

The Engineers were able to mount the beginning of a comeback as Kelly found Michael P. Fitzgerald '10 for a 37 yard pass to bring MIT to the Nichols one-yard line. Brown was able to leap over the trenches for his second score of the day to tighten the gap to 24-13 with 19 seconds left in the opening half.

The third quarter was devoid of all scoring, with the two teams trad-

ing interceptions. With 8:12 left in the third quarter, Kelly's pass was intercepted by Nichols' Brandon Wallace. The Engineer defense was able to respond well to the sudden change, as defensive back Corey Garvey '10 picked off a pass from Smith-Vaughn. Both the MIT and Nichols' offenses were stalled by tough defensive efforts throughout the quarter.

The fourth quarter was filled with suspense, as Kelly was able to find Nathaniel C. Forbes '12 with 6:30 left to go and bring the score to 24-19 after a failed two-point conversion. The Engineer defense was also able to hold the Bisons on two consecutive possessions, but a pass from Kelly to Forbes on the MIT 48 yard line with 1:26 to go was intercepted and returned for a touchdown, putting the nail in the coffin and extinguishing any shot the Engineers had for a come-from-behind victory.

The team will continue to work towards their first win of the season under first-year Head Coach Chad Martinovich. There were also some bright spots in the game, but the team needs, according to defensive end Patrick T. Jupe '12, more "consistency. We are very streaky and sometimes can play very well and other times play very poorly, even within a quarter. We need to work on playing well for a full four quarters." After reviewing some of the film, linebacker Kristopher C. Weaver '12 "was excited about how the defense played for most of the game, especially in the second half, but [they] made some mistakes that, with some film work, can be easily corrected and improved on for [University of Massachusetts] Dartmouth."

The Engineers, now 0-3, will play the University of Massachusetts Dartmouth Corsairs on Roberts Field in Steinbrenner Stadium at 1 p.m. next Saturday.



## Women's Soccer Defeats WPI 4-0, Extends Streak to Five

In a battle of the Engineers, MIT Women's Soccer won a 4-0 shutout over WPI in its conference opener Saturday at Roberts Field. MIT (5-2) has now won five in a row, while WPI (3-6) has lost two straight.

In the 15th minute, MIT's Edith R. Reshef '11 opened the scoring when she recovered the ball from WPI's defense and slid it in the net with a lofted shot from twenty-five yards.

Later in the half, Reshef drove a breakaway deep into the corner and turned the ball along the endline. WPI keeper Ally Stoyle was caught helpless as Reshef found freshman Merrick C. Livingstone '13 undefended just five yards in front of the net; Livingstone's put-away was her second of her career.

WPI's best scoring opportunity came near the end of the first half. After drawing a pair of MIT fouls, WPI's offense forced a corner kick with ninety seconds to play. Freshman Linsey Grasis' shot ended up just wide of the post, leaving the score 2-0 at half-time.

MIT's scoring leader Emily Kuo '13 extended the lead in the 68th minute when she gathered a pass from fellow freshman Andrea Y. Park '13 and nailed a perfectly-placed shot in the top corner of the goal. MIT closed out the scoring in the 84th minute when Stephanie D. Cooke '13 scored her first career goal on

a corner kick from defender Connie Y. Park '13.

MIT hosts the Bears of Bridgewater State in its next game this Thursday, October 1, at 7 p.m.

—Paul Blascovich, DAPER Staff

## Women's Cross Country Finishes Third At Codfish Bowl

The MIT women's cross country team, which came into this weekend's race ranked ninth in the country, received a strong effort from a small group of runners to take third place at the Codfish Bowl at Franklin Park on Saturday. Alina E. Gatowski '11 led the way for the Engineers, who sent just five runners to the meet, as she scored 129 points, tops among all Division III teams.

Gatowski came through in 18:30.9 to finish in seventh place overall. Two other MIT harriers would earn spots in the top 20 as well. Katherine J. Eve '12 ran 19:21.1, good for 16th while freshman Melissa A. Showers '13 (19:26.7) took 18th place in her collegiate debut. Alicia J. Kaestli '12 was not far behind, crossing the finish in 19:44.1 in 25th. Janice O'Brien '12 was the final runner for the Cardinal and Grey, running 20:57.8 in the 71st position.

Division I power Stony Brook University easily took the team title with three of the top four finishers and all five runners scoring in the top 10.

MIT will travel to Keene State College next Saturday, October 3 for an Invitational meet.

—Greg McKeever, DAPER Staff



EMILY KUO '13 dribbles through a Worcester Polytechnic Institute defensive player during the game on Saturday. The MIT Engineers won 4-0, extending their winning streak to five games.



BRIAN C. GARDNER '11 (#8) moves to block a pass by Brown University as Matthew J. Perkins '11 (front) and goalie Columbus P. Leonard '12 (back) stand guard during the men's water polo game on Sept. 24. The engineers lost 6-5 on a last-minute goal by Brown.



ANISA K. MCCREE '10 serves during MIT's tennis match against Mount Holyoke College on Saturday. The engineers were defeated 5-4.

### UPCOMING HOME EVENTS

Tuesday, September 29, 2009

Men's Tennis vs. UMass—Boston

4:30 p.m., duPont Courts

Thursday, October 1, 2009

Women's Soccer vs. Bridgewater State College

7 p.m., Steinbrenner Stadium

### SCOREBOARD

For a summary of all the scores and results from this weekend, check out the scoreboard on page 11.